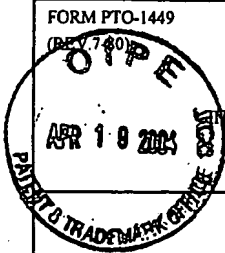


FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 660088.443C1	APPLICATION NO. 10/763,398
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Christen M. Anderson et al.	
		FILING DATE January 23, 2004	GROUP ART UNIT



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/RN/	AA	5,011,912	04/30/91	Hopp et al.	530	387	
	AB	2001/0044144	11/22/01	Anderson et al.	435	183	
	AC	2002/0177185	11/28/02	Anderson et al.	435	69.1	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AD	0 130 074 A1	01/02/85	EP		
	AE	0 477 961 A2	04/01/92	EP		
	AF	0 723 018	07/24/96	EP		
	AG	0 770 610 A1	05/02/97	EP		
	AH	WO 98/19714	05/14/98	WIPO		

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	AI	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <i>Science</i> 252:1651-1656, June 21, 1991.
	AJ	Adrian et al., "Sequences Required for Delivery and Localization of the ADP/ATP Translocator to the Mitochondrial Inner Membrane," <i>Molecular and Cellular Biology</i> 6(2):626-634, 1986.
	AK	Allgood and Eastman, "Chimeric Receptors as Gene Switches," <i>Curr. Opin. Biotechnol.</i> 8:474-479, August 1997
	AL	Aquila et al., "Complete Amino Acid Sequence of the ADP/ATP Carrier from Beef Heart Mitochondria," <i>Hoppe-Seyler's Z. Physiol. Chem.</i> 363:345-349, March 1982
	AM	Ashkenazi et al., "Protection Against Endotoxic Shock By A Tumor Necrosis Factor Receptor Immunoadhesin," <i>Proc. Natl. Acad. Sci. USA</i> 88:10535-10539, December 1991.
	AN	Ausserer et al., "Regulation of c-jun Expression During Hypoxic and Low-Glucose Stress," <i>Mol. Cell. Biol.</i> 14(8):5032-5042, August 1994.
	AO	Battini et al., "Molecular Cloning of a cDNA for a Human ADP/ATP Carrier Which is Growth-Regulated," <i>J. Biol. Chem.</i> 262(9):4355-4359, March 25, 1987.

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/RN/	BB	WO 9828415	07/02/98	WIPO			
	BC	WO 99/07845	02/18/99	WIPO			
	BD	WO 00/19200	04/06/00	WIPO			
	BE	WO 00/26370	05/11/00	WIPO			
	BF	WO 01/02598	01/11/01	WIPO			
	BG	WO 01/32876	05/10/01	WIPO			
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	BH	Beavis et al., "On the Regulation of K ⁺ Uniport in Intact Mitochondria by Adenine Nucleotides and Nucleotide Analogs," <i>J. Biol. Chem.</i> 268(2):997-1004, January 15, 1993.					
	BI	Beutner et al., "Complexes Between Porin, Hexokinase, Mitochondrial Creatine Kinase and Adenylate Translocator Display Properties of the Permeability Transition Pore. Implication for Regulation of Permeability Transition by the Kinases," <i>Biochim. Biophys. Acta</i> 1368:7-18, 1998.					
	BJ	Block et al., "Chemical Modifications and Active Site Labeling of the Mitochondrial ADP/ATP Carrier," <i>Methods in Enzymology</i> 125:658-670, 1986.					
	BK	Block et al., "Fluorescent Probes of the Mitochondrial ADP/ATP Carrier Protein," <i>Methods in Enzymology</i> 125: 639-649, 1986.					
	BL	Block et al., "Atractyloside and Bongkreic Acid Sites in the Mitochondrial ADP/ATP Carrier Protein," <i>FEBS Letters</i> 131(2):213-218, 1981.					
	BM	Block et al., "Chemical Modifications and Active Site Labeling of the Mitochondrial ADP/ATP Carrier," <i>Methods in Enzymology</i> 125:658-670, 1986.					
↓	BN	Bojanovski et al., "Studies on the Adenine Nucleotide Translocase from Rat Liver Mitochondria," <i>Eur. J. Biochem.</i> 71:539-548, 1976.					
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					YES	NO
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↓	/RN/	CC	Boulay et al., "Photolabeling Approach to the Study of the Topography of the Atractyloside Binding Site in Mitochondrial Adenosine 5'-Diphosphate/Adenosine 5'-Triphosphate Carrier Protein," <i>Biochemistry</i> 22: 477-484, 1983.
		CD	Boulay et al., "Synthesis and Properties of Fluorescent Derivatives of Atractyloside as Potential Probes on the Mitochondrial ADP/ATP Carrier Protein," <i>Analytical Biochemistry</i> 128:323-330, 1983.
		CE	Brandolin et al, "Partial Purification of an Atractyloside-Binding Protein from Mitochondria," <i>FEBS Letters</i> 46(1):149-153, September 1974.
		CF	Brandolin et al., "Substrate-Induced Modifications of the Intrinsic Fluorescence of the Isolated Adenine Nucleotide Carrier Protein: Demonstration of Distinct Conformational States," <i>Biochemistry</i> 24:1991-1997, 1985.
		CG	Brustovetsky and Klingenberg, "Mitochondrial ADP/ATP Carrier Can Be Reversibly Converted Into a Large Channel by Ca^{2+} ," <i>Biochemistry</i> 35:8483-8488, 1996.
		CH	Brunelli and Pall, "A Series of Yeast Shuttle Vectors for Expression of cDNAs and Other DNA Sequences," <i>Yeast</i> 9: 1299-1308, 1993.
		CI	Byrn et al., "Biological Properties of a CD4 Immunoadhesin," <i>Nature</i> 344(6267):667-673, April 12, 1990.
		CJ	Carra and Schleif, "Variation of half-site organization and DNA looping by AraC protein," <i>EMBO J.</i> 12(1):35-44, 1993
↓		CK	Chung, A. et al., "Transcriptional Control of Nuclear Genes for the Mitochondrial Muscle ADP/ATP Translocator and the ATP Synthase Beta Subunit. Multiple Factors Interact ith the OXBOX/REBOX Promoter Sequences," <i>J. Biol. Chem.</i> 267(29):21154-61, October 1992.

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	DB					YES	NO
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
/RN/	DC	Cozens et al., "DNA Sequences of Two Expressed Nuclear Genes for Human Mitochondrial ADP/ATP Translocase," <i>J. Mol. Biol.</i> 206:261-280, 1989.					
	DD	Doerner et al., "Tissue-Specific Transcription Pattern of the Adenine Nucleotide Translocase Isoforms in Humans," <i>FEBS Letters</i> 414(2):258-262, 1997.					
	DE	Dörner et al., "Transcription of the Adenine Nucleotide Translocase Isoforms in Various Types of Tissues in the Rat," <i>Biochimica et Biophysica Acta</i> 1417:16-24, 1999.					
	DF	Dümmler et al., "Regulation of Adenine Nucleotide Translocase and Glycerol 3-Phosphate Dehydrogenase Expression by Thyroid Hormones In Different Rat Tissues," <i>Biochem. J.</i> 317:913-918, 1996.					
	DG	Faure-Vigny et al., "Expression of Oxidative Phosphorylation Genes in Renal Tumors and Tumoral Cell Lines," <i>Molecular Carcinogenesis</i> 16:165-172, 1996.					
	DH	Fiore et al., "The Mitochondrial ADP/ATP Carrier: Structural, Physiological and Pathological Aspects," <i>Biochimie</i> 80:137-150, 1998.					
	DI	GenBank Acc. No. N86710, April 1, 1996.					
	DJ	Gilbert, <i>Developmental Biology</i> , fourth ed., Sinauer Associates, Inc., 1994, Chapter XIV, "Autonomous Cell Specification By Cytoplasmic Determinants," pp. 493-530.					
	DK	Giraud et al., "Expression of Human ANT2 Gene in Highly Proliferative Cells: GRBOX, a New Transcriptional Element, Is Involved in the Regulation of Glycolytic ATP Import Into Mitochondria," <i>J. Mol. Biol.</i> 281: 409-418, 1998.					
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	EB					YES	NO
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
/RN/	EC	Gottikh et al., "The General Synthetic Route to Amino Acid Esters of Nucleotides and Nucleoside-5'-Triphosphates and Some Properties of These Compounds," <i>Tetrahedron</i> 26:4419-4433, 1970.					
	ED	Graham et al., "A Mouse Model for Mitochondrial Myopathy and Cardiomyopathy Resulting From a Deficiency in a Heart/Muscle Isoform of the Adenine Nucleotide Translocator," <i>Nature Genetics</i> 16:226-234, July 1997.					
	EE	Green and Reed, "Mitochondria and Apoptosis," <i>Science</i> 281:1309-1312, August 28, 1998.					
	EF	Green, "Apoptotic Pathways: The Roads to Ruin," <i>Cell</i> 94:695-698, September 18, 1998.					
	EG	Guzman et al., "Tight Regulation, Modulation, and High-Level Expression by Vectors Containing the Arabinose P _{BAD} Promotor," <i>J. Bacteriol.</i> 177(14):4121-4130, July 1995.					
	EH	Haldimann et al., "Use of New Methods for Construction of Tightly Regulated Arabinose and Rhamnose Promoter Fusions in Studies of the <i>Escherichia coli</i> Phosphate Regulon," <i>J. Bacteriol.</i> 180(5):1277-1286, March 1998.					
	EI	Halestrap et al., "Elucidating the molecular mechanism of the permeability transition pore and its role in reperfusion injury of the heart," <i>Biochim. Biophys. Acta.</i> 1366:79-94, 1998.					
	EJ	Halestrap et al., "Oxidative Stress, Thiol Reagents, and Membrane Potential Modulate the Mitochondrial Permeability Transition by Affecting Nucleotide Binding to the Adenine Nucleotide Translocase," <i>The J. of Biological Chemistry</i> 272(6):3346-3354, February 7, 1997.					
↓	EK	Hatanaka, T. et al., "Significant Expression of Functional Human Type 1 Mitochondrial ADP/ATP Carrier in Yeast Mitochondria," <i>Biol. Pharm Bull.</i> 24(6):595-9, June 2001.					
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					YES	NO
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/RN/	FC	Heimpel, S. et al., "Expression of the Mitochondrial ADP/ATP Carrier in Escherichia Coli. Renaturation, Reconstitution, and the Effect of Mutations on 10 Positive Residues," <i>J. Biol. Chem.</i> 276(15):11499-506, April 2001.
	FD	Hopp et al., "A Short Polypeptide Marker Sequence Useful for Recombinant Protein Identification and Purification," <i>Bio/Technology</i> 6:1204-1210, October 1988.
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	FF	Klingenberg "Dialectics in Carrier Research: The ADP/ATP Carrier and the Uncoupling Protein," <i>J. of Bioenergetics and Biomembranes</i> 25(5):447-457, 1993.
	FG	Klingenberg et al., "Isolation of the ADP, ATP Carrier as the Carboxyatractylate Protein Complex from Mitochondria," <i>Biochimica et Biophysica Acta</i> 503:193-210, 1978.
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	FJ	Kroemer et al., "The Mitochondrial Death/Life Regulator in Apoptosis and Necrosis," <i>Annu. Rev. Physiol.</i> 60:619-642, 1998.
	FK	Kroemer et al., "The Biochemistry of Programmed Cell Death," <i>FASEB J.</i> 9:1277-87, October 1995.
▼	FL	Kroemer, "The Proto-Oncogene Bcl-2 and Its Role in Regulating Apoptosis," <i>Nature Medicine</i> 3(6):614-620, June 1997.

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					YES	NO	
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/RN/	GC	Ku et al., "The Human Fibroblast Adenine Nucleotide Translocator Gene: Molecular Cloning and Sequence," <i>The J. of Biological Chemistry</i> 265(27):16060-16063, September 1990.					
	GD	Lau and Chan, "Efflux of Adenine Nucleotides in Mitochondria from Rat Tumor Cells of Varying Growth Rates," <i>Cancer Research</i> 44:4458-4464, October 1984.					
	GE	Lauquin et al., "Aryl-Azido Atractylosides as Photoaffinity Labels for the Mitochondrial Adenine Nucleotide Carrier," <i>FEBS Letters</i> 67(3):306-311, September 1976.					
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	GI	Li et al., "A Human Muscle Adenine Nucleotide Translocator Gene has Four Exons, is Located on Chromosome 4, and is Differentially Expressed," <i>J. Biol. Chem.</i> 264(24):13998-4004, August 1989.					
	GJ	Li et al., "OXBOX, a Positive Transcriptional Element of the Heart-Skeletal Muscle ADP/ATP Translocator Gene," <i>The J. of Biological Chemistry</i> 265(33):20585-20588, November 25, 1990.					
↓	GK	Liu et al., "Induction of Apoptotic Program in Cell-Free Extracts: Requirement for dATP and Cytochrome c," <i>Cell</i> 86:147-157, July 12, 1996.					
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						YES	NO
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OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
/RN/	HC	Louvi and Tsitilou, "A cDNA Clone Encoding the ADP/ATP Translocase of <i>Drosophila Melanogaster</i> Shows a High Degree of Similarity with the Mammalian ADP/ATP Translocases," <i>J. Mol. Evol.</i> 35:44-50, 1992.					
	HD	Lunardi and Attardi, "Differential Regulation of Expression of the Multiple ADP/ATP Translocase Genes in Human Cells," <i>The J. of Biological Chemistry</i> 266(25):16534-16540, September 5, 1991.					
	HE	Lunardi et al., "The Multiple ADP/ATP Translocase Genes are Differentially Expressed During Human Muscle Development," <i>The J. of Biological Chemistry</i> 267(22):15267-15270, August 5, 1992.					
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	HI	Makrides, "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ," <i>Microbiological Reviews</i> 60(3):512-538, 1996.					
	HJ	Mayer, "A New Set of Useful Cloning and Expression Vectors Derived From pBlueScript," <i>Gene</i> 163:41-46, 1995.					
↓	HK	Miroux, B. et al., "Over-Production of Proteins in <i>Escherichia coli</i> : Mutant Hosts that Allow Synthesis of Some Membrane Proteins and Globular Proteins at High Levels," <i>J. Mol. Biol.</i> 260(3):289-98, July 1996.					
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						YES	NO
IB							
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/RN/	IC	Murdock et al., "Up-Regulation of Nuclear and Mitochondrial Gene in the Skeletal Muscle of Mice Lacking the Heart/Muscle Isoform of the Adenine Nucleotide Translocator," <i>Journal of Biological Chemistry</i> 274(20):14429-14433, May 14, 1999.					
	ID	Neckelmann et al., "cDNA Sequence of a Human Skeletal Muscle ADP/ATP Translocator: Lack of a Leader Peptide, Divergence from a Fibroblast Translocator cDNA, and Coevolution with Mitochondrial DNA Genes," <i>Proc. Natl. Acad. Sci. USA</i> 84:7580-7584, November 1987.					
	IE	Nelson et al., "Highly Conserved Charge-Pair Networks in the Mitochondrial Carrier Family," <i>J. Mol. Biol.</i> 277(2):285-308, 1998.					
	IF	Newmeyer et al., "Cell-Free Apoptosis in Xenopus Egg Extracts: Inhibition by Bcl-2 and Requirement for an Organelle Fraction Enriched in Mitochondria," <i>Cell</i> 79:353-364, October 21, 1994.					
	IG	O'Gorman et al., "Differential Effects of Creatine Depletion on the Regulation of Enzyme Activities and on Creatine-Stimulated Mitochondrial Respiration in Skeletal Muscle, Heart, and Brain," <i>Biochimica et Biophysica Acta</i> 1276:161-170, 1996.					
	IH	Obatomi and Bach, "Inhibition of Mitochondrial Respiration and Oxygen Uptake in Isolated Rat Renal Tubular Fragments by Atractyloside," <i>Toxicol. Lett.</i> 89:155-161, 1996.					
	II	Paradies et al., "Age-Dependent Decline in the Cytochrome c Oxidase Activity in Rat Heart Mitochondria: Role of Cardiolipin," <i>FEBS Letters</i> 406:136-138, 1997.					
	IJ	Paradies et al., "Lipid Peroxidation and Alterations to Oxidative Metabolism in Mitochondria Isolated from Rat Heart Subjected to Ischemia and Reperfusion," <i>Free Radical Biology & Medicine</i> 27(1/2):42-50, July 1999.					
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
JA							
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION	
						YES	NO
JB							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
/RN/	JC	Piozzi et al., "Structure of Atroctyloside," Chemical Abstracts Acc. No. 517201, 1967.					
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	JF	Powers et al., "On the Relationship Between the Mitochondrial Inner Membrane Anion Channel and the Adenine Nucleotide Translocase," <i>The J. of Biological Chemistry</i> 269(14):10614-10620, April 8, 1994.					
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	KA						
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					YES	NO	
	KB						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
/RN/	KC	Santi and Luciani, <i>Atractyloside/ Chemistry, Biochemistry and Toxicology</i> , Piccin Medical Books, Padova, Italy, 1978.					
	KD	Sheldon et al., "Strain-Related Brain Injury in Neonatal Mice Subjected to Hypoxia-Ischemia," <i>Brain Research</i> 810:114-122, 1998.					
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LB							
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/RN/ ↓	LC		Vignais et al., "Adenosine Diphosphate Translocation in Mitochondria. Nature of the Receptor Site for Carboxyatractyloside (Gummiferin)," <i>Biochemistry</i> 12(8): 1508-1519, 1973.				
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